

Aanderaa GeoView web based display

GEOVIEW IS A WEB BASED DISPLAY SOLUTION FOR DYNAMIC ENVIRONMENTAL DATA DISPLAY. IT USES HTML5/ JAVASCRIPT TO DISPLAY REAL-TIME DATA COLLECTED WITH VARIOUS TYPES OF INSTRUMENTATION.

GeoView is part of the Aanderaa Real-Time Solution. This gives the user vast opportunities for interfacing meteorological, oceanographic or other environmental research equipment in a networked solution giving access to data real-time.



Figure 1: Aanderaa GeoView program

GeoView comes with its own built in web page creator. The web page creator is an easy to use tool for creating informative web pages. Once a web page is compiled you are ready to share your live data with other users locally or worldwide. No special software is needed to view the live data. Just use your preinstalled standard web browser.



Figure 2: Compatible with iPhone and iPad

GeoView uses an underlying SQL database which contains the collected environmental data. The database can either reside on the computer which runs the display program, or it can run on another computer or a server on the local network. As shown in figure 2, the Real-Time collector typically receives data from various instruments either by direct cable connection, by radio modem, GPRS or other. Data is then fed to the SQL database and displayed instantly in the Aanderaa GeoView display program.

Functionality

GeoView has the following functionality:

1. Web based application showing real-time data in a standard browser
2. Data is dynamically updated as it is received
3. HTML5 / JavaScript graphics with line-graphs, bar-charts, wind speed indicator, compass-rose, and data tables which is configured to show data from any environmental data source available in the GeoView database
4. Display of both real-time and historical data in graphs
5. Online zoom functionality on timescale to study a subset of the data for a certain parameter
6. Statistical analysis of data: average, maximum, minimum, sum, standard deviation, and average over selectable intervals
7. Possible to show data from multiple stations in the same web page
8. Password protected data export utility for exporting data from database to text files
9. Web pages can be password protected

Installation

A CD with complete software and documentation are included in the package. Installation manuals will guide you through the installation. In addition to GeoView software the CD contains the free SQL Express database from Microsoft. This limits the number of simultaneous users of GeoView to 4 and the amount of data in the database to 2 GB.

Advanced installation

If numbers of users are more than 4 computers at the same time it is recommended to use Windows Server with SQL full version. In this case the number of simultaneous viewers on one page is not limited. The size of the SQL database is limited only by physical storage space on the computer.

Support

Aanderaa can offer a 5-hour online support free of charge if the computer/server is online and accessible through internet.

System Requirements

GeoView has the following system requirements:

Operating system: Windows 7 Professional or Windows Server 2008 Sp.

IIS, Internet Information Server will have to be available.

Also a version of Microsoft SQL Server is needed

PC specifications:

1. 3 GB RAM
2. Plus space for database
3. 3 GHz processor

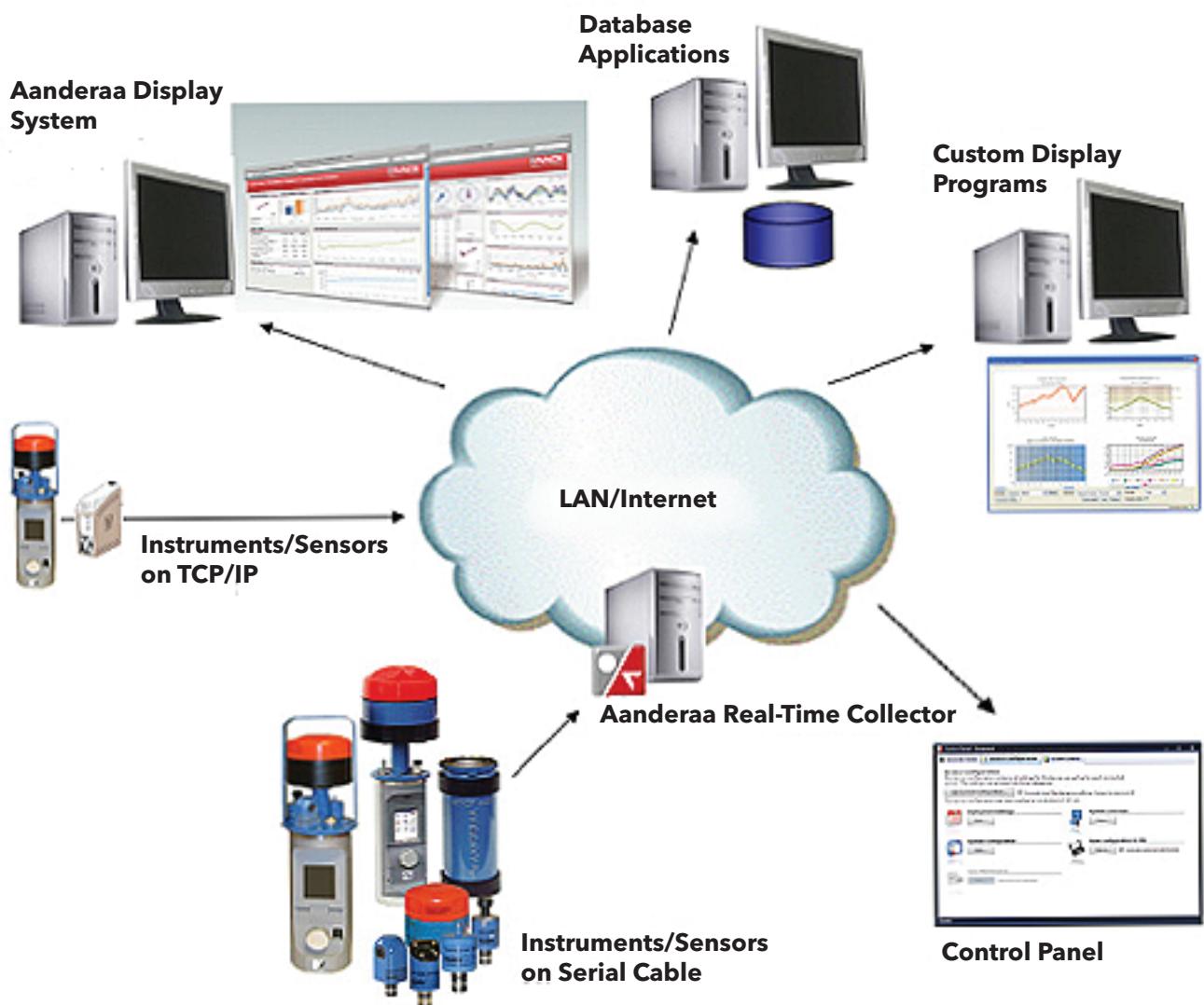


Figure 3: Aanderaa Real-Time Solution